Topic: Sketching graphs of transformations

Question: If each graph below represents one equation, match each equation to its graph.

I $y = \csc\dfrac{x}{4}$

II $y = \sin x + 2$

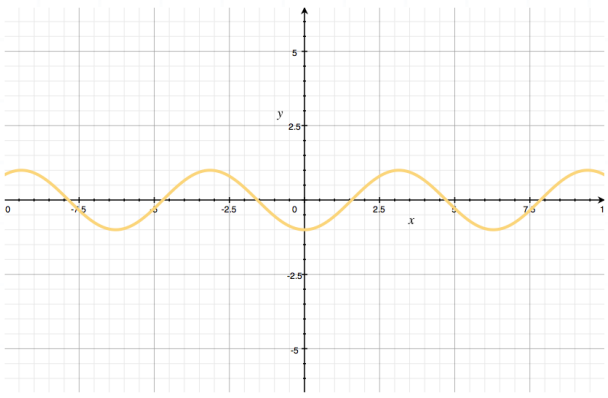
III $y = \cot\left(x - \dfrac{\pi}{2}\right)$

IV $y = \tan(2x)$

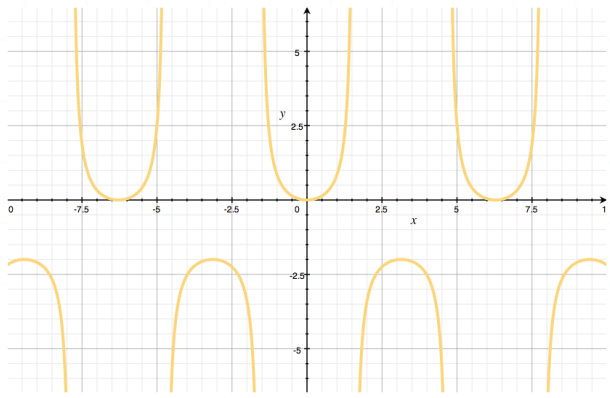
V $y = \cos(x + \pi)$

VI $y = \sec x - 1$

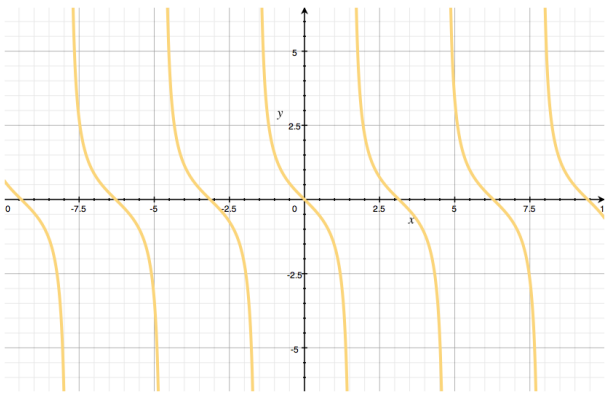
A



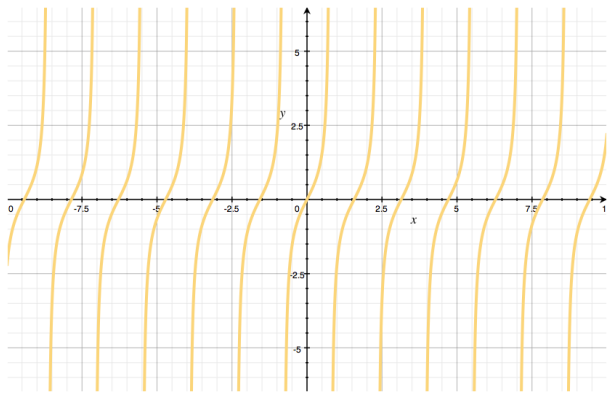
D



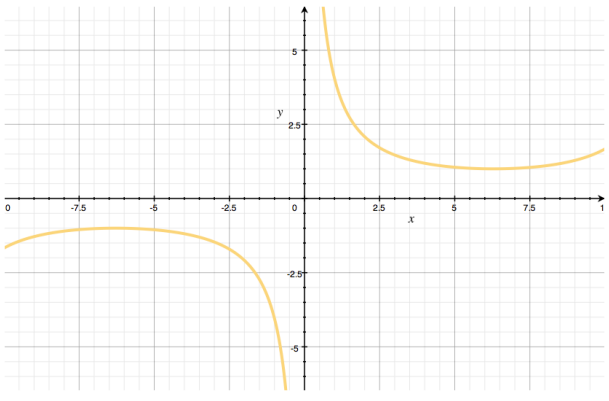
B



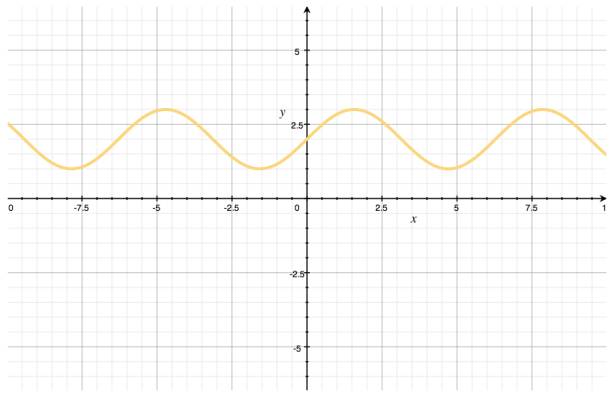
E



C



F



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Answer choices:

A I is A, II is F, III is D, IV is B, V is C, VI is E

B I is A, II is F, III is D, IV is C, V is B, VI is E

C I is C, II is F, III is B, IV is E, V is A, VI is D

D I is C, II is F, III is B, IV is D, V is E, VI is A

Solution: C

I is graph C

II is graph F

III is graph B

IV is graph E

V is graph A

VI is graph D

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Topic: Sketching graphs of transformations

Question: If each graph below represents one equation, match each equation to its graph.

I $y = \dfrac{x^2 + 2x + 1}{x - 1}$

II $y = x + 2$

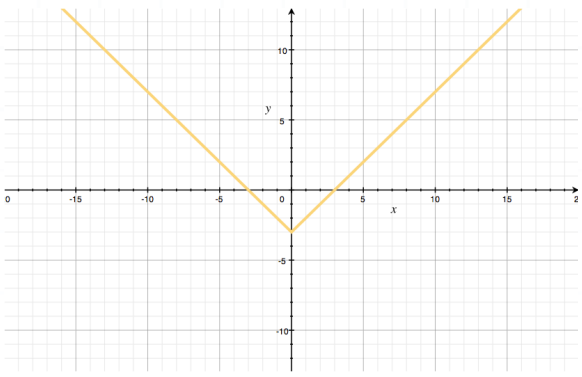
III $y = |x| - 3$

IV $y = -(x + 3)^2$

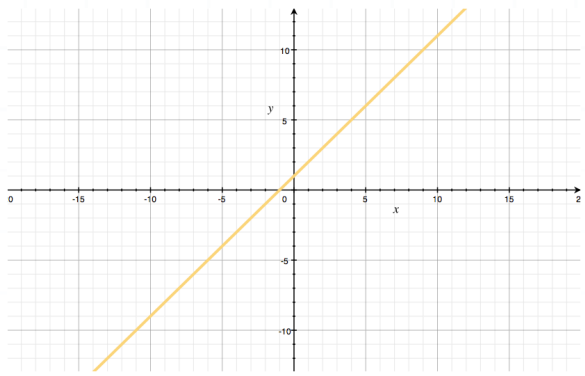
V $y = x - 2$

VI $y = \dfrac{x^2 + 2x + 1}{x + 1}$

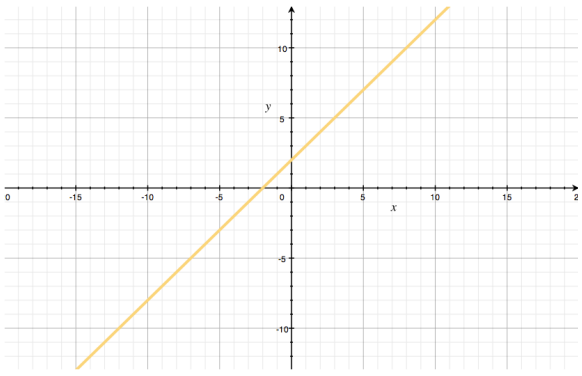
A



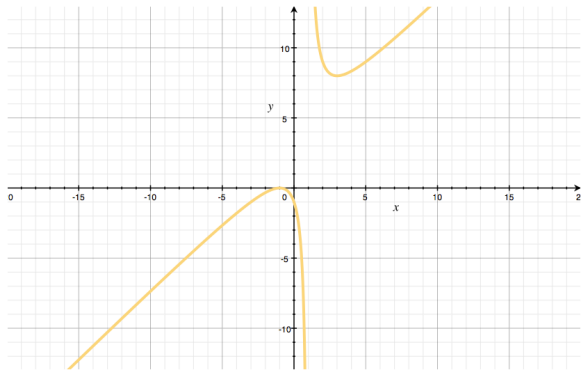
D



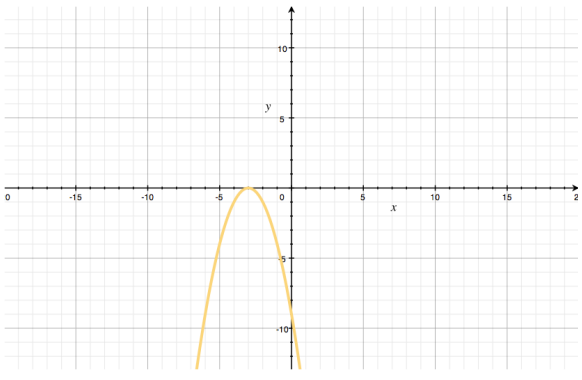
B



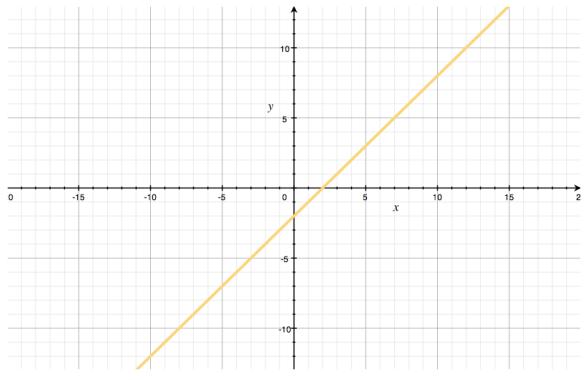
E



C



F



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Answer choices:

A I is E, II is B, III is A, IV is D, V is C, VI is F

B I is E, II is B, III is A, IV is C, V is F, VI is D

C I is F, II is A, III is B, IV is E, V is C, VI is D

D I is F, II is A, III is B, IV is D, V is E, VI is C

Solution: B

I is graph E

II is graph B

III is graph A

IV is graph C

V is graph F

VI is graph D

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Topic: Sketching graphs of transformations

Question: If each graph below represents one equation, match each equation to its graph.

I $y = x^3 - 2x^2 + x + 1$

II $y = x^3 - 2$

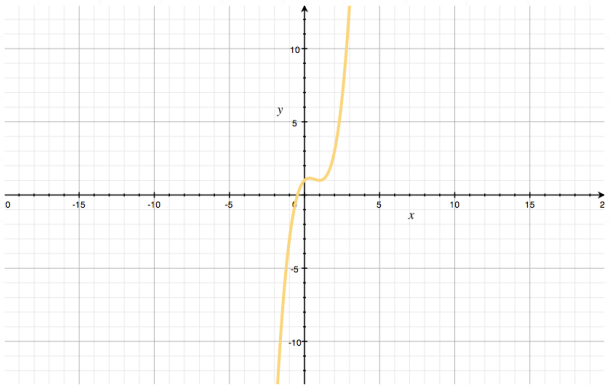
III $y = e^x$

IV $y = \sqrt{x} + 3$

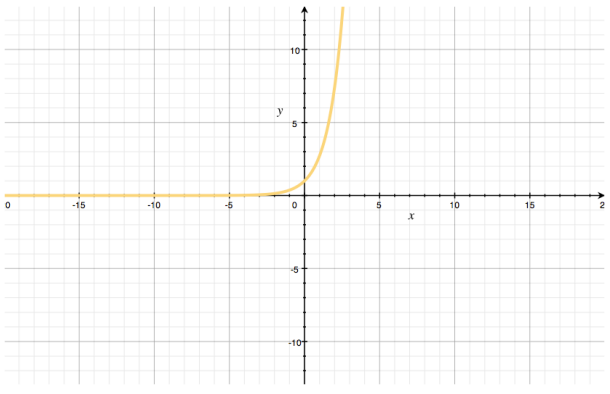
V $y = x - 2$

VI $y = \ln x$

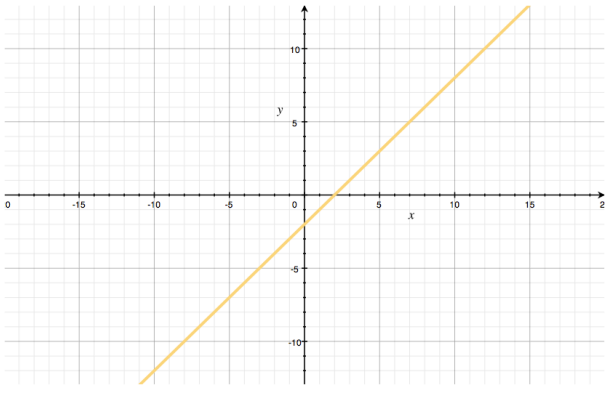
A



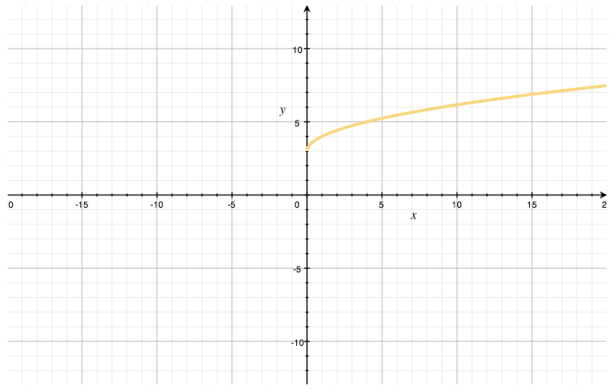
B



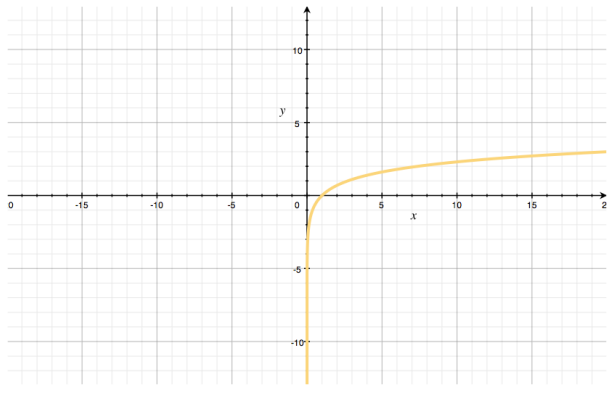
C



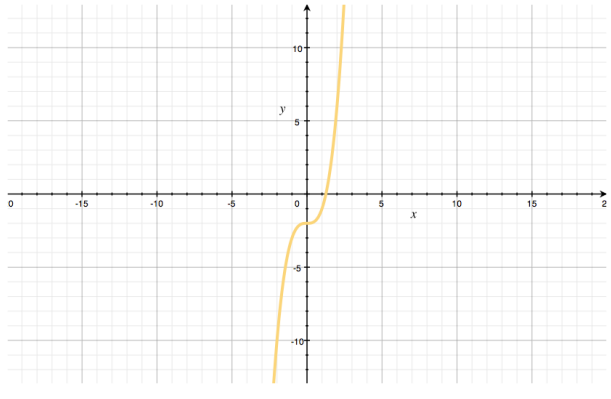
D



E



F



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Answer choices:

A I is B, II is D, III is A, IV is C, V is E, VI is F

B I is D, II is A, III is B, IV is C, V is E, VI is F

C I is A, II is F, III is B, IV is E, V is D, VI is C

D I is A, II is F, III is B, IV is D, V is C, VI is E

Solution: D

I is graph A

II is graph F

III is graph B

IV is graph D

V is graph C

VI is graph E

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